

# **Advancement Handbook for Machinist's Mate (Weapons) (Submarine)**

**(For advancement exams designated as  
MMW)**

## PREFACE

The purpose of this Advancement Handbook is to help you prepare for Navywide Machinist's Mate (Weapons) (Submarine) advancement-in-rating examinations. It is divided into four major "parts" and one appendix. The four "parts" list the general skills areas on which you may be tested and the specific topics on which the test questions may be based. The appendix lists the publications from which the test questions may be drawn. By using the information in this handbook and the bibliography for the exam you will be taking, you can concentrate your studying on the areas that may be tested and can get the most out of your limited study time.

Keep in mind that the four "parts" are cumulative; that is, you are responsible for the skills assigned to the paygrade you are testing for, as well as the skills assigned to your present paygrade and all paygrades below. If you are tested on skills and knowledges from lower paygrades, it will be at the level of the paygrade for which you are testing. For example, if the topic is "torpedo tubes", an **MM3** candidate might be asked questions about **major components** of the torpedo tube system, an **MM2** candidate might be asked about the **operation** of the torpedo tubes and **detailed description** of torpedo tube components, an **MM1** candidate might be asked about **normal and emergency** tube operation as well as **testing procedures**, and an **MMC** candidate might be asked about **testing and troubleshooting procedures**.

As you prepare for the exam, remember that the exam is designed to test your knowledge of your profession. You gain professional knowledge by doing your job, completing your qualifications cards, and studying the references associated with your rating. The best way you can prepare for an advancement exam is to:

1. Learn as much as you can about your job. Complete as many of your qualification cards as you can. Know as much about the construction and operation of your equipment as you can. Continually ask questions. Find out not only what happens, but why it happens and what to do if it doesn't happen as expected. Make this a continuing process.

2. As soon as the bibliography for the exam you plan to take is available, get a copy and start reviewing the references listed on it. Don't try to memorize the information the references contain. Use that information to "sharpen" the knowledge and skills you already have.

Finally, remember that advancement competition is keen, so your keys to advancement include not only comprehensive advancement examination study but also sustained superior performance.

Prepared by

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## Part 1

### Advancement Handbook for MMW3

# Advancement Handbook for MMW3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
<b>Mechanical Systems Operation</b>	
Operate ordnance launching support equipment and related systems	<ul style="list-style-type: none"> <li>• Equipment operating parameters (air reducers, accumulators, sea chest blow, etc)</li> <li>• Equipment construction and operating procedures</li> <li>• Equipment component terminology</li> <li>• Fluid power theory</li> </ul>
Perform routine maintenance on ordnance launching support equipment	<ul style="list-style-type: none"> <li>• Ordnance launching support equipment preventive and corrective maintenance procedures</li> </ul>
Demonstrate an understanding of the skills and knowledges prescribed by the Anchor Operator Qualification Card	<ul style="list-style-type: none"> <li>• Anchor windlass description and operation</li> </ul>
Perform log keeping on operating equipment and systems	<ul style="list-style-type: none"> <li>• Equipment operating parameters recording procedures</li> </ul>
<b>Mechanical Maintenance</b>	
Perform routine maintenance on launching support systems	<ul style="list-style-type: none"> <li>• Valve cleaning, inspecting, and repairing procedures</li> <li>• Lubrication procedures</li> <li>• 3-M worker procedures</li> </ul>
Demonstrate proper tool use	<ul style="list-style-type: none"> <li>• Tool use and safety precautions</li> </ul>
Perform tagout procedures	<ul style="list-style-type: none"> <li>• Tagout procedures</li> </ul>

# Advancement Handbook for MMW3

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<b>Quality Assurance</b>	
<ul style="list-style-type: none"> <li>• Document work on QA forms</li> <li>• Observe QA procedures and QA forms requirements</li> <li>• Demonstrate an understanding of the skills and knowledges prescribed on the Quality Assurance Inspector Qualification Card</li> </ul>	<ul style="list-style-type: none"> <li>• QA forms</li> <li>• QA procedures</li> </ul>
<b>Technical Administration</b>	
Update and install changes to technical publications	<ul style="list-style-type: none"> <li>• Technical publications maintenance</li> </ul>
State the purpose and describe the use of procedural documentation	<ul style="list-style-type: none"> <li>• Procedural documentation (PG, OP, CL, CP)</li> </ul>
Use ship's drawings and drawing index	<ul style="list-style-type: none"> <li>• Ship's drawing index</li> </ul>
Draw basic system diagrams	<ul style="list-style-type: none"> <li>• System symbols used in drawings</li> </ul>
Update divisional logs and records	<ul style="list-style-type: none"> <li>• Log and records keeping</li> </ul>
Demonstrate an understanding of security requirements	<ul style="list-style-type: none"> <li>• Security (admin &amp; physical)</li> </ul>
Prepare Trident command and control problem reports	<ul style="list-style-type: none"> <li>• Trident command and control problem reporting</li> </ul>
Prepare torpedo maintenance data forms (TMIS, TMDER, etc.)	<ul style="list-style-type: none"> <li>• Torpedo maintenance data forms</li> </ul>

## Advancement Handbook for MMW3

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<b>Material Casualty/Damage Control</b>	
Perform basic engineering casualty control exercises	<ul style="list-style-type: none"> <li>• Basic casualty control terminology</li> <li>• Basic casualty control procedures</li> </ul>
Perform torpedo/missile casualty procedures	<ul style="list-style-type: none"> <li>• Torpedo/missile emergency procedures</li> </ul>
Perform torpedo/missile fuel cleanup procedures	<ul style="list-style-type: none"> <li>• Fuel cleanup procedures (Otto Fuel II, T-H Dimmer, and JP-5/JP-10)</li> </ul>
Maintain fuel spill kits	<ul style="list-style-type: none"> <li>• Fuel spill kit maintenance (Otto Fuel II, T-H Dimmer, and JP-5/JP-10)</li> </ul>
Use ship's damage control equipment	<ul style="list-style-type: none"> <li>• Ship's damage control equipment procedures</li> </ul>
<b>Ordnance/Component Maintenance/Operations</b>	
Demonstrate an understanding of the skills and knowledges prescribed by the Torpedo Room Watch Qualification Card	<ul style="list-style-type: none"> <li>• Torpedo/missile operation and description</li> </ul>
Demonstrate and understanding of the physical security requirements for all ship ordnance	<ul style="list-style-type: none"> <li>• Ordnance physical security</li> </ul>
Perform physical security equipment maintenance	<ul style="list-style-type: none"> <li>• Physical security equipment</li> </ul>



# Advancement Handbook for MMW3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Perform basic preventive and corrective maintenance on torpedoes	<ul style="list-style-type: none"> <li>• Torpedo fresh water wash down, bearing plate replacement, torpedo wire splice, etc.</li> </ul>
Perform basic missile preventive and corrective maintenance	<ul style="list-style-type: none"> <li>• Missile pressurization checks, electrical cable replacement, etc.</li> </ul>
<b>Small Arms Maintenance</b>	
<ul style="list-style-type: none"> <li>• Demonstrate an understanding of the skills and knowledges prescribed by the Small Arms Maintenance Individual Qualification Card</li> <li>• Perform small arms maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• Small arms maintenance</li> </ul>
Inspect and use the line throwing rifle adapter	<ul style="list-style-type: none"> <li>• Line throwing rifle adapter use</li> </ul>
<b>Torpedo Tube/Signal Ejector System Maintenance/ Operations</b>	
Demonstrate an understanding of the skills and knowledges prescribed by the Torpedo Room Watch Qualification Card	<ul style="list-style-type: none"> <li>• Equipment operating instructions and procedures</li> <li>• Theory of equipment operation</li> <li>• Equipment construction</li> <li>• Equipment component terminology</li> </ul>
Demonstrate an understanding of the skills and knowledges prescribed by the 3-Inch Launcher/Signal Ejector Operator Qualification Card	<ul style="list-style-type: none"> <li>• Equipment operating instructions and procedures</li> <li>• Theory of equipment operation</li> <li>• Equipment construction</li> <li>• Equipment component terminology</li> </ul>

# Advancement Handbook for MMW3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Demonstrate an understanding of the skills and knowledges prescribed by the Pyrotechnic Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Equipment operating instructions and procedures</li> <li>• Theory of equipment operation</li> <li>• Equipment construction</li> <li>• Equipment component terminology</li> </ul>
<b>Vertical Launch System Maintenance</b>	
Demonstrate an understanding of the skills and knowledges prescribed by the Vertical Launch System Operator Qualification Card	<ul style="list-style-type: none"> <li>• Equipment operating instructions and procedures</li> <li>• Theory of equipment operation</li> <li>• Equipment construction</li> <li>• Equipment component terminology</li> </ul>
Demonstrate an understanding of the skills and knowledges prescribed by the Vertical Launch System Handling Team Member Qualification Card	<ul style="list-style-type: none"> <li>• Equipment operating instructions and procedures</li> <li>• Theory of equipment operation</li> <li>• Equipment construction</li> <li>• Equipment component terminology</li> </ul>
<b>Test Equipment Maintenance/Operations</b>	
<ul style="list-style-type: none"> <li>• Clean, inspect, and test Otto Fuel II detectors</li> <li>• Operate Otto Fuel II detectors</li> </ul>	<ul style="list-style-type: none"> <li>• Test equipment maintenance</li> <li>• Otto Fuel II detector operation</li> </ul>
Demonstrate a basic understanding of how to operate the AURES and Mk 75 simulators	<ul style="list-style-type: none"> <li>• AURES and Mk 75 simulator operation</li> </ul>
Operate TOMAHAWK missile test equipment	<ul style="list-style-type: none"> <li>• Test set and equipment operation</li> <li>• Test equipment maintenance</li> </ul>
Operate the Vertical Launch System calibration test set	<ul style="list-style-type: none"> <li>• Test set and equipment operation</li> <li>• Test equipment maintenance</li> </ul>

# Advancement Handbook for MMW3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
<b>Weapons Handling/Equipment Maintenance Operations</b>	
Demonstrate an understanding of the skills and knowledges prescribed by the Ammunition Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Ammunition handling requirements</li> <li>• General safety rules and associated hazards with all ordnance</li> </ul>
Demonstrate an understanding of the skills and knowledges prescribed by the Pyrotechnic Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Pyrotechnics handling requirements</li> <li>• Pyrotechnics physical characteristics</li> <li>• General safety rules and associated hazards with all ordnance</li> </ul>
Demonstrate and understanding of the skills and knowledges prescribed by the Weapons Handling Team Member Qualification Card	<ul style="list-style-type: none"> <li>• Tube load/unload of weapons</li> <li>• Receipt inspections of ordnance</li> <li>• General safety rules and associated hazards with all ordnance</li> <li>• Equipment component terminology</li> </ul>
<ul style="list-style-type: none"> <li>• Perform maintenance on weapons handling equipment</li> <li>• Conduct prior-to-use inspection on installed handling system and interlocks</li> </ul>	<ul style="list-style-type: none"> <li>• Weapons handling inspection and maintenance</li> </ul>
Determine currency of weapons handling weight tests	<ul style="list-style-type: none"> <li>• Weight test currency requirements</li> </ul>
Use and care of torque wrenches	<ul style="list-style-type: none"> <li>• Torque wrench care and use</li> </ul>

## Advancement Handbook for MMW3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
<b>Magazine Maintenance/ Operations</b>	
Demonstrate an understanding of the magazine-associated skills and knowledges prescribed by the Ammunition Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Magazine inspection procedures</li> </ul>
Demonstrate an understanding of the magazine-associated skills and knowledges prescribed by the Pyrotechnic Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Magazine flooding system operation</li> <li>• Magazine inspection procedures</li> </ul>
<b>Electrical/Electronic Maintenance</b>	
Identify the procedures and safety requirements associated with using the multimeter and megger	<ul style="list-style-type: none"> <li>▪ Multimeter and megger theory and use</li> <li>▪ Safety precautions</li> </ul>

## Part 2

### Advancement Handbook for MMW2

# Advancement Handbook for MMW2

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<b>Mechanical Systems Operation</b>	
<ul style="list-style-type: none"> <li>• Inspect and repair ordnance launching support equipment and related systems</li> <li>• Adjust ordnance launching support equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Ordnance launching support equipment construction</li> <li>• Ordnance launching support equipment preventive and corrective maintenance procedures</li> </ul>
Perform anchor operations and maintenance	<ul style="list-style-type: none"> <li>• System construction</li> <li>• System operation</li> <li>• System preventive maintenance</li> </ul>
<b>Mechanical Maintenance</b>	
<ul style="list-style-type: none"> <li>• Troubleshoot launching support equipment and related systems</li> <li>• Perform/supervise routine and corrective maintenance on launching support systems</li> </ul>	<ul style="list-style-type: none"> <li>• Troubleshooting procedures</li> <li>• Valve inspections and repairing procedures</li> </ul>
Verify ship's grease system plan	<ul style="list-style-type: none"> <li>• Lubrication procedures</li> </ul>
Perform tagout audits	<ul style="list-style-type: none"> <li>• Tagout procedures</li> </ul>
<b>Quality Assurance</b>	
Prepare QA forms	<ul style="list-style-type: none"> <li>• QA forms contents and preparation procedures</li> </ul>
Prepare control work packages	<ul style="list-style-type: none"> <li>• Control work package contents and preparation procedures</li> </ul>
Prepare formal work packages	<ul style="list-style-type: none"> <li>• Formal work package contents and preparation procedures</li> </ul>

## Advancement Handbook for MMW2

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
Submit Departure from Specifications forms	<ul style="list-style-type: none"> <li>• Departure from Specifications forms contents and preparation procedures</li> </ul>
Conduct acceptance inspections on controlled material	<ul style="list-style-type: none"> <li>• Acceptance inspection requirements and procedures</li> </ul>
<b>Technical Administration</b>	
Maintain technical publications	<ul style="list-style-type: none"> <li>• Technical publications maintenance</li> </ul>
Demonstrate the proper use of procedural documentation	<ul style="list-style-type: none"> <li>• Procedural documentation (PG, OP, CL, CP) use requirements</li> </ul>
Prepare 3-M maintenance forms	<ul style="list-style-type: none"> <li>• 3-M maintenance forms (deferred and completed 2-Kilos, 2-Limas, etc.) requirements and completion procedures</li> </ul>
Perform work center safety inspections/surveys	<ul style="list-style-type: none"> <li>• Safety inspections/surveys procedures</li> </ul>
Maintain divisional logs/records	<ul style="list-style-type: none"> <li>• Log and records keeping</li> <li>• Weight test records</li> <li>• Calibration records</li> <li>• Divisional work logs</li> <li>• Training records</li> </ul>
Complete and submit daily magazine/small arms reports	<ul style="list-style-type: none"> <li>• Shipboard ammunition administration (ATRs, small arms reports, etc.)</li> <li>• Ammunition Arms &amp; Explosives (AA&amp;E) security requirements</li> </ul>

## Advancement Handbook for MMW2

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Maintain and update ammunition lot/location cards	<ul style="list-style-type: none"> <li>• Magazine records</li> </ul>
Verify the accuracy of system diagrams and drawings	<ul style="list-style-type: none"> <li>• Procedures for verifying the accuracy of system diagrams and drawings</li> </ul>
Prepare and submit supply requisitions	<ul style="list-style-type: none"> <li>• Supply requisition procedures</li> </ul>
<b>Material Casualty/Damage Control</b>	
Perform detailed engineering casualty control procedures	<ul style="list-style-type: none"> <li>• Basic engineering casualty control procedures (hydraulic, high-pressure air leak, etc.)</li> <li>• Ship's damage control procedures</li> </ul>
Perform detailed torpedo/missile casualty procedures	<ul style="list-style-type: none"> <li>• Torpedo/missile emergency procedures</li> </ul>
Perform detailed fuel clean up procedures	<ul style="list-style-type: none"> <li>• Otto Fuel II, T-H Dimmer, and JP-5/JP-10 fuel clean up procedures</li> </ul>
<b>Ordnance/Component Maintenance/Operation</b>	
<ul style="list-style-type: none"> <li>• Perform the tasks prescribed by the Torpedo Room Watch Qualification Card</li> </ul>	<ul style="list-style-type: none"> <li>▪ Ordnance operations</li> </ul>
<ul style="list-style-type: none"> <li>• Perform torpedo/missile component inspections</li> <li>• Perform/supervise preventive and corrective maintenance on torpedoes</li> <li>• Perform/supervise preventive and corrective maintenance on missiles</li> </ul>	<ul style="list-style-type: none"> <li>• Torpedo/missile maintenance (missile pressurization checks, electrical cable replacement, etc.)</li> </ul>



## Advancement Handbook for MMW2

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<b>Small Arms Maintenance</b>	
Perform tasks as prescribed by the Small Arms Maintenance Individual Qualification Card	<ul style="list-style-type: none"> <li>• Small arms maintenance</li> </ul>
Coordinate qualification firings for security forces	<ul style="list-style-type: none"> <li>• Small arms qualification procedures</li> </ul>
<b>Torpedo Tube/Signal Ejector System Maintenance/ Operations</b>	
Perform tasks prescribed by the Torpedo Room Watch Qualification Card	<ul style="list-style-type: none"> <li>• Torpedo system operations (startup; normal, manual and emergency operations; etc.)</li> </ul>
Perform tasks prescribed by the 3-Inch Launcher/Signal Ejector Operator Qualification Card	<ul style="list-style-type: none"> <li>• 3-Inch Launcher/Signal Ejector system operations (startup; normal, manual and emergency operations; etc.)</li> </ul>
Perform tasks as prescribed by the Pyrotechnic Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Equipment casualty procedures</li> </ul>
<b>Vertical Launch System Maintenance</b>	
<ul style="list-style-type: none"> <li>• Perform tasks prescribed by the Vertical Launch System Operator Qualification Card</li> <li>• Demonstrate an understanding of the skills and knowledges prescribed by the Vertical Launch Handling Individual/ Team Leader Qualification Card</li> </ul>	<ul style="list-style-type: none"> <li>• Equipment operation and maintenance</li> <li>• Equipment casualty procedures</li> </ul>

## Advancement Handbook for MMW2

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Demonstrate an understanding of the skills and knowledges prescribed by the Vertical Launch Handling Individual/ Team Leader Qualification Card	<ul style="list-style-type: none"> <li>• VLS weapon handling requirements</li> </ul>
<b>Test Equipment Maintenance/ Operations</b>	
Perform Otto Fuel II detector maintenance	<ul style="list-style-type: none"> <li>• Otto Fuel II detector preventive maintenance procedures</li> </ul>
Discuss the AURES and Mk 75 simulator characteristics and operation	<ul style="list-style-type: none"> <li>• AURES simulator characteristics and operation</li> <li>• Mk 75 simulator characteristics and operation</li> </ul>
Operate TOMAHAWK missile test equipment	<ul style="list-style-type: none"> <li>• TOMAHAWK missile pressurization test set operation</li> </ul>
Operate vertical launch system calibration test set	<ul style="list-style-type: none"> <li>• VLS calibration test set operating procedures</li> </ul>
<b>Weapons Handling/Equipment Maintenance Operations</b>	
Perform tasks prescribed by the Ammunition Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Ammunition inventory procedures</li> <li>• Ammunition inspections</li> <li>• Ammunition handling procedures</li> <li>• General safety rules and ordnance-associated hazards</li> </ul>
Perform tasks prescribed by the Pyrotechnic Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Pyrotechnics inventory procedures</li> <li>• Pyrotechnics inspections</li> <li>• Pyrotechnics handling procedures</li> <li>• General safety rules and ordnance-associated hazards</li> </ul>

# Advancement Handbook for MMW2

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Perform tasks prescribed by the Weapons Handling Individual Qualification Card	<ul style="list-style-type: none"> <li>• Tube load/unload of weapons</li> <li>• Ordnance receipt inspections</li> <li>• Weapons handling procedures</li> <li>• General safety rules and ordnance-associated hazards</li> </ul>
<ul style="list-style-type: none"> <li>• Perform maintenance on weapons handling equipment</li> <li>• Conduct prior-to-use inspection on installed handling system and interlocks</li> </ul>	<ul style="list-style-type: none"> <li>• Weapons handling inspection and maintenance</li> </ul>
Verify weapons handling weight test periodicity	<ul style="list-style-type: none"> <li>• Weight test log requirements and use</li> </ul>
<b>Magazine Maintenance/Operations</b>	
Perform the tasks prescribed by the Ammunition Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Equipment maintenance</li> <li>• Magazine inspection procedures</li> </ul>
Perform the tasks prescribed by the Pyrotechnic Handler Individual Qualification Card	<ul style="list-style-type: none"> <li>• Equipment maintenance</li> <li>• Magazine inspection procedures</li> </ul>
<b>Electrical/Electronic Maintenance</b>	
<ul style="list-style-type: none"> <li>• Conduct point-to-point voltage and current measurements</li> <li>• Perform resistance and continuity measurements</li> </ul>	<ul style="list-style-type: none"> <li>• Multimeter theory and operation</li> <li>• Megger theory and operation</li> </ul>

## Part 3

### Advancement Handbook for MMW1

# Advancement Handbook for MMW1

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<b>Mechanical System Operation</b>	
Troubleshoot and test launching support equipment and related systems	<ul style="list-style-type: none"> <li>• Troubleshooting procedures</li> <li>• Launching support equipment/ system operating characteristics</li> <li>• Launching support system operations</li> </ul>
Inspect and test anchor components	<ul style="list-style-type: none"> <li>• Inspection and testing requirements</li> </ul>
<b>Mechanical Maintenance</b>	
Inspect and troubleshoot launching support equipment and related systems	<ul style="list-style-type: none"> <li>• System preventive maintenance requirements</li> <li>• System corrective maintenance requirements</li> </ul>
Coordinate tagout audits	<ul style="list-style-type: none"> <li>• Tagout procedures</li> <li>• Tagout audit requirements and procedures</li> </ul>
<b>Quality Assurance</b>	
Review QA reports	<ul style="list-style-type: none"> <li>• QA inspection requirements and reporting procedures</li> </ul>
Review control work packages	<ul style="list-style-type: none"> <li>• Control work package contents and preparation procedures</li> </ul>
Review formal work packages	<ul style="list-style-type: none"> <li>• Formal work package contents and preparation procedures</li> </ul>
Review Departures from Specifications forms	<ul style="list-style-type: none"> <li>• Departure from Specifications forms contents and preparation procedures</li> </ul>

# Advancement Handbook for MMW1

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
Conduct QA material storage surveillance and schedules	<ul style="list-style-type: none"> <li>• Audit and surveillance procedures</li> </ul>
<b>Technical Administration</b>	
Develop PMS cycle, quarterly, and weekly schedules	<ul style="list-style-type: none"> <li>• 3-M requirements and scheduling procedures</li> </ul>
<ul style="list-style-type: none"> <li>• Prepare and maintain ATRs</li> <li>• Review master stock record cards</li> </ul>	<ul style="list-style-type: none"> <li>• Ammunition administration</li> </ul>
Perform explosive safety inspections	<ul style="list-style-type: none"> <li>• Explosive safety inspection procedures</li> <li>• Ordnance safety requirements</li> </ul>
Perform AA&E physical security surveys	<ul style="list-style-type: none"> <li>• Security requirements</li> </ul>
Submit ordnance alteration (ORDALT) documentation	<ul style="list-style-type: none"> <li>• ORDALT documentation requirements</li> </ul>
Develop and verify procedural documentation	<ul style="list-style-type: none"> <li>• Procedural documentation requirements</li> <li>• Local change requirements</li> </ul>
Develop divisional training schedules	<ul style="list-style-type: none"> <li>• Training schedule requirements</li> </ul>

# Advancement Handbook for MMW1

<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
Maintain and review divisional records	<ul style="list-style-type: none"> <li>• Weight test records</li> <li>• Calibration records</li> <li>• Magazine records</li> <li>• Divisional work logs</li> <li>• Training records</li> </ul>
Review supply requisitions	<ul style="list-style-type: none"> <li>• Supply procedures</li> </ul>
<b>Ordnance/Component Maintenance/Operations</b>	
Supervise ordnance procedures and maintenance	<ul style="list-style-type: none"> <li>• Ordnance operations</li> <li>• Ordnance procedures</li> </ul>
<b>Material Casualty/Damage Control</b>	
Supervise and perform emergency casualty control procedures	<ul style="list-style-type: none"> <li>• Emergency casualty control procedures</li> </ul>
Supervise torpedo/missile casualty procedures	<ul style="list-style-type: none"> <li>• Torpedo/missile casualty procedures</li> </ul>
Supervise fuel clean up procedures	<ul style="list-style-type: none"> <li>• Fuel clean up procedures</li> </ul>
<b>Small Arms Maintenance</b>	
Monitor qualifications firing for security forces	<ul style="list-style-type: none"> <li>• Small arms qualifications</li> </ul>
<b>Torpedo Tube/Signal Ejector System Maintenance/Operations</b>	
<ul style="list-style-type: none"> <li>• Supervise torpedo tube/signal ejector firing tests</li> <li>• Troubleshoot and test torpedo tubes/signal ejector</li> </ul>	<ul style="list-style-type: none"> <li>• Torpedo tube/signal ejector operations</li> <li>• Torpedo tube/signal ejector maintenance</li> </ul>

## Advancement Handbook for MMW1

GENERAL SKILLS AREA	EXAM EXPECTATIONS
<b>Vertical Launch System Maintenance</b>	
Troubleshoot and test vertical launch system	<ul style="list-style-type: none"><li>• Vertical launch system maintenance/operations</li></ul>
<b>Weapons Handling/ Equipment Maintenance Operations</b>	
Supervise weapons handling evolutions	<ul style="list-style-type: none"><li>• Weapons handling maintenance and operations</li></ul>
Perform non-nuclear explosive handling certification program administrative requirements	<ul style="list-style-type: none"><li>• Non-nuclear explosive handling certification program administrative requirements</li></ul>



## Part 4

### Advancement Handbook for MMWC

# Advancement Handbook for MMWC

<b>GENERAL SKILLS</b>	<b>EXAM EXPECTATIONS</b>
<b>Mechanical Maintenance</b>	
Coordinate preventive and corrective maintenance on launching support equipment and related systems	<ul style="list-style-type: none"> <li>• Launching support equipment 3-M procedures</li> </ul>
Test and troubleshoot launching support equipment and related systems	<ul style="list-style-type: none"> <li>• Launching support equipment troubleshooting procedures/tables</li> </ul>
<b>Quality Assurance</b>	
<ul style="list-style-type: none"> <li>• Review and approve control work packages</li> <li>• Submit Departure From Specification forms</li> </ul>	<ul style="list-style-type: none"> <li>• QA procedures</li> </ul>
Conduct acceptance inspections on controlled material	<ul style="list-style-type: none"> <li>• QA acceptance inspection procedures</li> </ul>
Coordinate and maintain QA material storage surveillance and schedules	<ul style="list-style-type: none"> <li>• QA surveillance and audits</li> </ul>
<b>Technical Administration</b>	
Review 3-M schedules	<ul style="list-style-type: none"> <li>• 3-M procedures and requirements</li> </ul>
Review completed 3-M forms	<ul style="list-style-type: none"> <li>• 3-M forms requirements for and contents</li> </ul>
Submit configuration change requests	<ul style="list-style-type: none"> <li>• Requirements for and contents of Configuration Change Requests</li> </ul>

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<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<ul style="list-style-type: none"> <li>• Review ATRs</li> <li>• Coordinate and review explosive safety inspections</li> <li>• Coordinate and review AA&amp;E physical security surveys</li> </ul>	<ul style="list-style-type: none"> <li>• Ammunition administration</li> </ul>
Review and approve divisional training plans	<ul style="list-style-type: none"> <li>• Training requirements</li> </ul>
Review divisional logs/records	<ul style="list-style-type: none"> <li>• Logs and records requirements and contents</li> </ul>
Prepare CASREPs	<ul style="list-style-type: none"> <li>• CASREP procedures</li> </ul>
<b>Material Casualty/Damage Control</b>	
Create, schedule, and implement applicable drills	<ul style="list-style-type: none"> <li>• Material casualty control drills</li> </ul>
Supervise damage control parties	<ul style="list-style-type: none"> <li>• Damage control procedures</li> </ul>
<b>Ordnance/Component Maintenance/Operations</b>	
Coordinate ordnance operations and maintenance	<ul style="list-style-type: none"> <li>• Ordnance operations</li> </ul>
<b>Torpedo Tube/Signal Ejector System Maintenance/Operations</b>	
Coordinate torpedo/signal ejector maintenance and operations	<ul style="list-style-type: none"> <li>• Launching equipment maintenance/operations</li> </ul>

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<b>GENERAL SKILLS AREA</b>	<b>EXAM EXPECTATIONS</b>
<b>Vertical Launch System Maintenance</b>	
Coordinate VLS maintenance and operations	<ul style="list-style-type: none"><li>• VLS maintenance/operations</li></ul>
<b>Weapons Handling/ Equipment Maintenance/ Operations</b>	
Implement non-nuclear explosive handling and certification program	<ul style="list-style-type: none"><li>• Non-nuclear explosives handling and certification program requirements and procedures</li></ul>
Coordinate weapons handling/equipment operations	<ul style="list-style-type: none"><li>• Weapons handling/equipment operations</li></ul>

## Appendix 1

### References Used in This Advancement Handbook

The references are divided into five groups. The first group pertains to paygrades E-4 through E-7. The remaining four groups pertain to individual paygrades, as indicated on the lists.

**Keep in mind that the ONLY publications you need to study in preparing for a specific exam are the publications listed on the exam specific-bibliography for that exam.**

#### MMW3 THROUGH MMWC

Short Title	Long Title	Stocking Point
CINCLANT/PACFLT 4790.3 Vol IV	Joint Fleet Maintenance Manual; Tests, Inspections and Special Application Maintenance Programs; CINCLANT/PACFLT 4790.3 Vol IV	Note 1
CINCLANT/PACFLT 4790.3 Vol V	Joint Fleet Maintenance Manual; Quality Maintenance (formerly Quality Assurance); CINCLANT/PACFLT 4790.3 Vol V	Note 1
SSORM (SSBN)	Standard Submarine Organization and Regulations Manual (SSBN); COMSUBLANT/PAC 5400.38	Note 2
SSORM (SSN)	Standard Submarine Organization and Regulations Manual (SSN); COMSUBLANT/PAC 5400.39	Note 2
COMSUBLANT/PAC 5400.40	Standard Submarine Combat Systems Department Organization and Regulations Manual (SSN); COMSUBLANT/PAC 5400.40	Note 2
COMSUBLANT/PAC 8120.2	Submarine Force Nuclear Weapons Manual; COMSUBLANT/PAC 8120.2	Note 2
COMSUBLANT/PAC 8500.4	Submarine Force Conventional Weapons Manual; COMSUBLANT/PAC 8500.4	Note 2
MFG PUB KNC 3558-39-1	King Neutronics 3558 Pressure-Vacuum Chamber; MFG PUB KNC 3558-39-1	Note 5
N0000-00-IDX-000/TMINS	Navy's Standard Technical Manual Identification Numbering System (TMINS); N0000-00-IDX-000/TMINS	Note 4

NAVAIR 17-35-MTL-1	Metrology Requirements List; NAVAIR 17-35-MTL-1	Note 4
NAVEDTRA 173-01-00-88	NEETS, Module 1 – Introduction to Matter, Energy, and Direct Current; NAVEDTRA 173-01-00-88	Note 4
NAVEDTRA 172-02-00-91	NEETS, Module 2 – Introduction to Alternating Current and Transformers; NAVEDTRA 172-02-00-91	Note 4
NAVEDTRA 172-03-00-93	NEETS, Module 3 – Circuit Protection, Control and Measurement; NAVEDTRA 172-02-00-91	Note 4
NAVEDTRA 172-16-00-96	NEETS, Module 16 – Introduction to Test Equipment, NAVEDTRA 172-16-00-96	Note 4
NAVELEX EE730-HA-OMI-010	Radiac Set AN/PDR-73; NAVELEX EE730-HA-OMI-010	Note 4
NAVMEDCOMINST 6270.1	Health Hazards of OTTO Fuel II; NAVMEDCOMINST 6270.1	Note 4
NAVSEA 0948-LP-012-5000	Standard Navy Valves; NAVSEA 0948-LP-012-5000	Note 4
NAVSEA OD 3000	Ordnance Lubrication; NAVSEA OD 3000	Note 4
NAVSEA OD 44979, Vol 1	Firing Craft Operating Procedures and Checklists ; Introduction and Description; NAVSEA OD 44979, Vol 1	Note 3
NAVSEA OD 44979, Vol 2; Pt 1,5,8,9,12 (AS APPLICABLE)	Firing Craft Operating Procedures and Check List for Weapon Loading and Handling Systems; NAVSEA OD 44979, Vol 2; Pt 1,5,8,9,12 (as applicable)	Note 3
NAVSEA OD 44979, Vol 2; Pt 14	Firing Craft Operating Procedures and Check List for 3-Inch Launcher; NAVSEA OD 44979, Vol 2; Pt 14	Note 3
NAVSEA OD 44979, Vol 4	Firing Craft Operating Procedures for Weapons Emergencies; NAVSEA OD 44979; Vol 4	Note 3
NAVSEA OD 44979, Vol 7	Firing Craft Operating Procedures for Torpedo MK 48; NAVSEA OD 44979; Vol 7	Note 3
NAVSEA OD 44979, Vol 11	Firing Craft Operating Procedures for Underwater Mine Mk 60 (CAPTOR); NAVSEA OD 44979; Vol 11	Note 3
NAVSEA OD 44979, Vol 12	Firing Craft Operating Procedures for Underwater Mine Mk 67 (SLMM); NAVSEA OD 44979; Vol 12	Note 3
NAVSEA OD 44979, Vol 14; Pt 1,2,14 (as applicable)	Firing Craft Operating Procedures for TOMAHAWK Missile UGM-109; NAVSEA OD 44979, Vol 14; Pt 1,2,14 (as applicable)	Note 3

NAVSEA OD 44979, Vol 15	Firing Craft Operating Procedures for Advanced Capability (ADCAP) Torpedo Mk 48; NAVSEA OD 44979; Vol 15	Note 3
NAVSEA OD 44979, Vol 17	Firing Craft Operating Procedures for Weapon Monitoring Equipment; NAVSEA OD 44979; Vol 17	Note 3
NAVSEA OP 3347	United States Navy Ordnance Safety Precautions; NAVSEA OP 3347	Note 4
NAVSEA OP 3565 Vol 1	Electromagnetic Radiation Hazards, Hazards to Personnel, Fuel and Other Flammable Material, Vol 1; NAVSEA OP 3565; Vol 1	Note 4
NAVSEA OP 3565 Vol 2	Electromagnetic Radiation Hazards, Hazards to Ordnance, Vol 2; NAVSEA OP 3565; Vol 2	Note 4
NAVSEA OP 4	AMMUNITION AFLOAT; NAVSEA OP 4	Note 4
NAVSEA OP 4020	Torpedo Mk 48, All Mods; NAVSEA OP 4020	Note 3
NAVSEA OP 4023	Torpedo Mk 48, All Mods; NAVSEA OP 4023	Note 3
NAVSEA OP 4443	Torpedo Mounted Dispenser Mk 10 Mod 0; NAVSEA OP 4443	Note 4
NAVSEA S005-AA-GYD-030	Guide for User Maintenance of NAVSEA Technical Manuals (TMMP); NAVSEA S005-AA-GYD-030	Note 4
NAVSEA S0752-AA-GYD-010	Ship Configuration and Logistic Support Information System (SCLSIS); NAVSEA S0752-AA-GYD-010	Note 4
NAVSEA S6340-AA-MMA-010	OTTO Fuel II Safety, Storage, and Handling Instructions; NAVSEA S6340-AA-MMA-010	Note 4
NAVSEA S6340-AF-MMO-010	OTTO Fuel Detector Mk 15 Mod 0; NAVSEA S6340-AF-MMO-010	Note 4
NAVSEA S6430-AE-TED-010	Technical Directive for Piping Devices, Flexible Hose Assemblies, Vol 1; NAVSEA S6430-AE-TED-010	Note 4
NAVSEA S6430-AE-TED-020	Technical Directive for Piping Devices, Flexible Hose Assemblies, Vol 2; NAVSEA S6430-AE-TED-020	Note 4
NAVSEA S9086-VD-STM-010	Preservation of Ships in Service-General, NSTM, Vol 1; NAVSEA S9086-VD-STM-010	Note 4

NAVSEA S9086-VD STM-020	Preservation of Ships in Service-Surface Preparation and Painting, NSTM, Vol 2; NAVSEA S9086-VD STM-020	Note 4
NAVSEA S9086-CH-STM-030	Gas-Free Engineering, NSTM, Vol 3, Chapter 074; NAVSEA S9086-CH-STM-030	Note 4
NAVSEA S9086-CJ-STM-010	Fasteners, NSTM, Chapter 075; NAVSEA S9086-CJ-STM-010	Note 4
NAVSEA S9086-CL-STM-030	Personnel Protection Equipment, NSTM, Chapter 077; NAVSEA S9086-CL-STM-030	Note 4
NAVSEA S9086-CM-STM-010	Seals, NSTM, Chapter 078; NAVSEA S9086-CM-STM-010	Note 4
NAVSEA S9086-H7-STM-010	Lubricating Oils, Greases, and Hydraulic Fluids and Lubrication Systems, NSTM, Chapter 262; NAVSEA S9086-H7-STM-010	Note 4
NAVSEA S9086-RJ-STM-000	Pressure, Temperature and Other Mechanical and Electromechanical Measuring Instruments, NSTM, Chapter 504; NAVSEA S9086-RJ-STM-000	Note 4
NAVSEA S9086-RK-STM-010	Piping Systems, NSTM, Chapter 505; NAVSEA S9086-RK-STM-010	Note 4
NAVSEA S9086-S3-STM-020	Submarine Firefighting, NSTM, Vol 2, Chapter 555; NAVSEA S9086-S3-STM-020	Note 4
NAVSEA S9086-S4-STM-010	Hydraulic Equipment (Power Transmission and Control ) NSTM, Chapter 556; NAVSEA S9086-S4-STM-010	Note 4
NAVSEA S9086-SX-STM-010	Industrial Gases; Generating, Handling and Storage, NSTM, Chapter 550; NAVSEA S9086-SX-STM-010	Note 4
NAVSEA S9086-TY-STM-010	Anchoring, NSTM, Chapter 581; NAVSEA S9086-TY-STM-010	Note 4
NAVSEA S9086-UK-STM-010	Locks, Keys, and Hasps, NSTM, Chapter 604; NAVSEA S9086-UK-STM-010	Note 4
NAVSEA S9086-UU-STM-010	Wire and Fiber Rope Rigging, NSTM, Chapter 613; NAVSEA S9086-UU-STM-010	Note 4
NAVSEA S9086-VD-STM-030	Preservation of Ships in Service-Surface Ship/Submarine Applications, NSTM, Chapter 631, Vol 3; NAVSEA S9086-VD-STM-030	Note 4
NAVSEA S9086-WK-STM-010	Stowage, Handling, and Disposal of Hazardous General Use Consumables, NSTM, Chapter 670; NAVSEA S9086-WK-STM-010	Note 4



NAVSEA S9086-XG-STM-010	Shipboard Ammunition Handling and Stowage, NSTM, Chapter 700; NAVSEA S9086-XG-STM-010	Note 4
NAVSEA S9505-AF-MMA-010	Submarine Non-Nuclear Piping Systems Test Manual; NAVSEA S9505-AF-MMA-010	Note 4
NAVSEA S9558-AA-MMA-100	Ship's Valves Technical Manual, Chapter 10; NAVSEA S9558-AA-MMA-100	Note 4
NAVSEA S9SSB-X9-SSM-BD0	SSBN726 SSM Weapon Shipping and Handling, Vol 2, Pt 3, Ch 8; NAVSEA S9SSB-X9-SSM-BD0	Note 4
NAVSEA S9SSB-X9-SSM-BE0	SSBN726 SSM Torpedo Tubes and Weapons Launching System, Vol 2, Pt 3, Ch 9; NAVSEA S9SSB-X9-SSM-BE0	Note 4
NAVSEA S9SSB-X9-SSM-BF0	SSBN726 SSM 3-Inch Device Delivery System, Vol 2 Pt 3, Ch 10; NAVSEA S9SSB-X9-SSM-BF0	Note 4
NAVSEA S9SSN-W4-SSM-BN0	SSN688 SSM Weapons Delivery System, Vol 2, Pt 8; NAVSEA S9SSN-W4-SSM-BN0	Note 8
NAVSEA S9SSN-W4-SSM-BP0	SSN688 SSM 3-Inch and 6-Inch Device Delivery System, Vol 2, Pt 9; NAVSEA S9SSN-W4-SSM-BP0	Note 8
NAVSEA S9SSN-W4-SSM-BP0	SSN688 SSM Vertical Launch System, Vol 2, Pt 12; NAVSEA S9SSN-W4-SSM-BP0	Note 8
NAVSEA SG420-AN-MMA-010	Defensive Weapons Delivery System Equipment Manual Vol 1, General Information, Techniques and Criteria, and Scheduled Maintenance; NAVSEA SG420-AN-MMA-010	Note 4
NAVSEA SG420-AN-MMA-020	Defensive Weapons Delivery System Equipment Manual Vol II, Troubleshooting, Maintenance, Repair, and Overhaul, Books 1 and 2; NAVSEA SG420-AN-MMA-020	Note 4
NAVSEA SG420-BU-MMA-010	SSN688 Class Weapons Delivery System Equipment Manual Vol I; NAVSEA SG420-BU-MMA-010	Note 6
NAVSEA SG420-BU-MMA-020	SSN688 Class Weapons Delivery System Equipment Manual Vol II Troubleshooting; NAVSEA SG420-BU-MMA-020	Note 6
NAVSEA SG420-BU-MMA-050	SSN688 Class Weapons Delivery System Equipment Manual Vol V Vertical Launch System; NAVSEA SG420-BU-MMA-050	Note 6

NAVSEA SW010-AB-GTP-010	United States Navy Ammunition Historical Data; NAVSEA SW010-AB-GTP-010	Note 4
NAVSEA SW010-AF-ORD-010	Identification of Ammunition; NAVSEA SW010-AF-ORD-010	Note 4
NAVSEA SW050-AB-MMA-010	Pyrotechnic, Screening, Marking, and Countermeasures; NAVSEA SW050-AB-MMA-010	Note 4
NAVSEA SW350-A1-MMO-010	Description, Operation, and Maintenance Mk 87 Mod 1 Line Throwing Rifle Adapter Kit; NAVSEA SW350-A1-MMO-010	Note 4
NAVSEA SW395-AA-IFM-010	Submarine Torpedo Tubes and Weapon Handling Systems Interface Manual Description; NAVSEA SW395-AA-IFM-010	Note 4
NAVSEA SW395-AA-IFM-020	Submarine Torpedo Tubes and Weapon Handling Systems Interface Manual Drawings; NAVSEA SW395-AA-IFM-020	Note 3
NAVSEA SW395-AA-IFM-040	Submarine Weapon Handling , Stowage, and Torpedo Tube Launch Interface Manual; NAVSEA SW395-AA-IFM-040	Note 3
NAVSEA SW395-AA-MMO-020	Torpedo Control Cables and Test Equipment; NAVSEA SW395-AA-MMO-020	Note 4
NAVSEA SW513-EO-MMA-010	Torpedo Mk 48 ADCAP Weapon System and In-Service Support Equipment and Description; NAVSEA SW513-EO-MMA-010	Note 3
NAVSEA SW513-EO-MMI-010	Torpedo Mk 48 ADCAP Torpedo and In-Service Support Equipment Physical and Functional Description; NAVSEA SW513-EO-MMI-010	Note 3
NAVSEA T6530-AA-HBK-010	Submarine Greasing Hand Book; NAVSEA T6530-AA-HBK-010	Note 4
NAVSEA TW510-AA-PRO-040	Torpedo Management Information System Reporting Instruction for Mk 48 ADCAP Torpedoes; NAVSEA TW510-AA-PRO-040	Note 4
NAVSUPP 485 (Chapter 6)	Afloat Supply Procedures; NAVSUPP 485 (Chapter 6)	Note 6
NAVY SW370-AA-OPI-010	Operator's Manual, Pistol, Semiautomatic, 9MM, M9; NAVY SW370-AA-OPI-010	Note 4
NWP 3-21.53.1	Submarine Torpedo Reference Manual Mk 48 Torpedo; NWP 3-21.53.1	Note 4, 9
NWP 3-21.53.2	Submarine Torpedo Employment Manual Mk 48 ADCAP; NWP 3-21.53.2	Note 4, 9
NWP 3-21.53.3	Evasion, Pyrotechnic, and Signal Devices Reference Manual; NWP 3-21.53.3	Note 4, 9

OPNAVINST 3100.6	Special Incident Reporting (OPREP 3); OPNAVINST 3100.6	Note 7
SORM	Standard Organization and Regulations Manual of the U.S. Navy; OPNAVINST 3120.32	Note 7
OPNAVINST 4441.170	COSAL Maintenance and Use; OPNAVINST 4441.170	Note 7
3-M Manual	Ships' Maintenance Material Management (3-M) Manual; OPNAVINST 4790.4	Note 7
OPNAVINST 5090.1	Environment and Natural Resources Program Manual; OPNAVINST 5090.1	Note 7
OPNAVINST 5100.19	Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat; OPNAVINST 5100.19	Note 7
OPNAVINST 5100.20	Shipboard Heat Stress Control and Personnel Protection; OPNAVINST 5100.20	Note 7
OPNAVINST 5102.1	Mishap Investigating and Reporting; OPNAVINST 5102.1	Note 7
OPNAVINST 5510.1	Department of the Navy Information and Personnel Security Program; OPNAVINST 5510.1	Note 7
OPNAVINST 5510.162	Nuclear Weapon Personnel Reliability Program (PRP); OPNAVINST 5510.162	Note 7
OPNAVINST 5530.13	Department of the Navy Physical Security Instruction for Conventional Arms, Ammunition, and Explosives (AA&E); OPNAVINST 5530.13	Note 7
OPNAVINST 5530.14	Department of the Navy Physical Security and Loss Prevention; OPNAVINST 5530.14	Note 7
OPNAVINST 8023.2	U.S. Navy Explosives Safety Policies, Requirements and Procedures (Department of the Navy Explosives Safety Policy Manual); OPNAVINST 8023.2	Note 7
OPNAVINST C8126.1	Navy Nuclear Weapons Security Manual; OPNAVINST C8126.1	Note 11
OPNAVINST C9210.2	Engineering Department Manual; OPNAVINST C9210.2	Note 4
SECNAVINST 5215.1	Department of the Navy Directives Issuance; SECNAVINST 5215.1	Note 7
SECNAVINST 5216.1	Department of the Navy Correspondence Manual; SECNAVINST 5216.1	Note 7
SPCCINST 4441.170	COSAL Use and Maintenance Manual; SPCCINST 4441.170	Note 10

SPCCINST 8010.12	Supply Management of Ammunition; SPCCINST 8010.12	Note 10
SW820-AA-LOG-010	TOMAHAWK Cruise Missile UGM-109-1 Logistic Support and OLSS; SW820-AA- LOG-010	Note 4
SW820-AA-LOG-020	TOMAHAWK Cruise Missile UGM-109-2 Logistic Support and OLSS; SW820-AA- LOG-020	Note 4
SW820-AA-MMO-010	System Overview of Equipment, Operations and Maintenance (Submarine) TOMAHAWK Cruise Missile UGM-109 System; SW820-AA-MMO-010	Note 4
SW820-AA-MMO-020	System Overview of Equipment, Operations and Maintenance (Submarine) TOMAHAWK Cruise Missile UGM-109 System; SW820-AA-MMO-020	Note 4
TM 9-1005-211-12	Operator and Organizational Maintenance Manual Including Basic Issue Items List and Repair Parts and Special Tools List Pistol, Caliber .45, Automatic, M1911A1; TM 9-1005-211-12	Note 11
TM 9-1005-223-10	Operator's Manual for Rifle, 7.62-MM, M14; TM 9-1005-223-10	Note 11
TM 9-1005-249-10	Operator's Manual for Rifle, 5.56-MM, M16; TM 9-1005-249-10	Note 11

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Short Title	Long Title	Stocking Point
NAVEDTRA 12001	Fireman; NAVEDTRA 12001	Note 4
NAVEDTRA 12014	Blueprint Reading and Sketching; NAVEDTRA 12014	Note 4
NAVEDTRA 12043	Military Requirements, Basic (BMR); NAVEDTRA 12043	Note 4
NAVEDTRA 12044	Military Requirements for Petty Officer Third Class; NAVEDTRA 12044	Note 4
NAVEDTRA 12085	Use and Care of Hand Tools and Measuring Tools; NAVEDTRA 12085	Note 4
NAVEDTRA 12199	Basic Machines; NAVEDTRA 12199	Note 4
NAVEDTRA 12443	Gunner's Mate; NAVEDTRA 12443 (Chaps 1, 2, and 3)	Note 4
NAVEDTRA 12650	Storekeeper 3 & 2; NAVEDTRA 12650	Note 4

NAVEDTRA 12694	Fluid Power; NAVEDTRA 12694	Note 4
SORM	Standard Organization and Regulations Manual of the U.S. Navy; (Chapter 6 only); OPNAVINST 3120.32	Note 7

## **MMW2**

<b>Short Title</b>	<b>Long Title</b>	<b>Stocking Point</b>
NAVEDTRA 12014	Blueprint Reading and Sketching; NAVEDTRA 12014	Note 4
NAVEDTRA 12043	Military Requirements, Basic (BMR); NAVEDTRA 12043	Note 4
NAVEDTRA 12045	Military Requirements for Petty Officer Second Class; NAVEDTRA 12045	Note 4
NAVEDTRA 12443	Gunner's Mate; NAVEDTRA 12443 (Chaps 1, 2, and 3)	Note 4
NAVEDTRA 12650	Storekeeper 3 & 2; NAVEDTRA 12650	Note 4

## **MMW1**

<b>Short Title</b>	<b>Long Title</b>	<b>Stocking Point</b>
COMSUBLANT/PAC C3500.1	Joint Training Manual; COMSUBLANT/PAC C3500.1	Note 2
NAVEDTRA 12971	Naval Safety Supervisor; NAVEDTRA 12971	Note 4
OPNAVINST 3600.3	Policy for the Material and Tactical Certification of Cruise Missile Capable Surface Ships and Submarines; OPNAVINST 3600.3	Note 7
OPNAVINST 4700.8	Trials, Acceptance, Commissioning, and Fitting of U.S. Naval Ships Undergoing Construction/Conversion/Modernization; OPNAVINST 4700.8	Note 7

## **MMWC**

<b>Short Title</b>	<b>Long Title</b>	<b>Stocking Point</b>
CINCLANT/PACFLT 4790.3 Vol I	Joint Fleet Maintenance Manual, New Construction; CINCLANT/PACFLT 4790.3 Vol I	Note 1

CINCLANT/PACFLT 4790.3 Vol II	Joint Fleet Maintenance Manual, Integrated Fleet Maintenance; CINCLANT/PACFLT 4790.3 Vol II	Note 1
CINCLANT/PACFLT 4790.3 Vol III	Joint Fleet Maintenance Manual Deployed Maintenance; CINCLANT/PACFLT 4790.3 Vol III	Note 1
NAVEDTRA 12047	Military Requirements for Chief Petty Officer; NAVEDTRA 12047	Note 4

## NOTES

Note 1 – INTERNET – <http://www.submepp.navy.mil/PRODSERV.HTM>

Note 2 – Ltr request to: Commander Submarine Fleet  
U.S. Atlantic Fleet  
7958 Blandy Rd.  
Norfolk VA 23551-2492

Note 3 – Ltr request to: Commander Naval Undersea Warfare Center  
Division  
1176 Howell St  
Building 1259  
Newport RI 02841-1708

Note 4 – To order: MILSTRIP TO NAVICP PHILA (Stk No. from NAVSUP P2002) or via INTERNET: <http://www.nll.navsup.navy.mil>

Note 5 – NWASTA CORONA, CA

Note 6 – Ltr request to: SUPSHIP  
4101 Washington Ave Bldg 2  
Newport News, VA 23607-2787

Note 7 – INTERNET <http://neds.nebt.daps.mil>

Note 8 – Ltr request to : Electric Boat Corporation  
A General Dynamics Company\  
Eastern Point Road  
Groton CT. 06340  
Attn: Department 403

Note 9 – NTIC Series B1 (CD-ROM) (See your command NWP custodian)

Note 10 – Ltr request to: Commanding Officer  
Navy Ships Part Control Center  
5450 Carlisle Pike  
P.O. Box 2020  
Mechanicsburg PA 17055-0788

Note 11 – Ltr request to: U.S. Army Publications  
Distribution Center- St Louis  
ATTN: ASQZ-SDC  
1655 Woodson Rd  
St Louis, MO 63114-6181

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